PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference P035987WO/ACJ	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/GB2004/004838	International filing date (day/month/year) 17 November 2004 (17.11.2004)	Priority date (day/month/year) 18 November 2003 (18.11.2003)	
International Patent Classification (8th See relevant information in Form P	edition unless older edition indicated) CCT/ISA/237		-
Applicant ETHICON, INC.			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.			
		ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.		
3.	This report contains indications	relating to the following items:		
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority		
		Date of issuance of this report		

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The International Bureau of WIPO 34, chemin des Colombettes

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PATENT COOPERATION TREATY

From the NTERNATIONAL SEARCHING AUTHORITY			RITY	REC'D 25 APR 2003	
То:					P. Godina
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)	
				Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below	
	ational application N GB2004/004838		International filing date (c	day/month/year)	Priority date (day/month/year) 18.11.2003
	.15/56, A61L15/		porth national classification , A61L15/44, A61L15		
ETHI	CON, INC.				
1.	This opinion co	ntains indicati	ons relating to the fol	owing items:	
	☑ Box No. I	Basis of the op	pinion		
	☐ Box No. II	Priority			
	Box No. III			ard to novelty, inve	ntive step and industrial applicability
	☐ Box No. IV	Lack of unity of		- 4(-)(!) with rooms	to payothy inventive step or industrial
	☑ Box No. V	Reasoned state applicability; c	tement under Hule 4 <i>301</i> itations and explanation	s supporting such s	to novelty, inventive step or industrial statement
	🛛 Box No. VI	Certain docum	ents cited		
	☐ Box No. VII		s In the International ap		
	☐ Box No. VIII	Certain observ	ations on the internatio	nal application	
2.	FURTHER ACTI	ON			
	written opinion o	f the Internatior coses an Autho eau under Rule	ial Preliminary Examinir	ig Authority ("IPEA" o be the IPEA and t	will usually be considered to be a). However, this does not apply where the chosen IPEA has notifed the rnational Searching Authority
	auhmit to the IDI	EA a written rep date of mailing	ly together where anni	opriate with amend	he IPEA, the applicant is invited to Iments, before the expiration of three ion of 22 months from the priority date,
	For further optio	ns, see Form P	CT/ISA/220.	•	
3.	For further detai	ls, see notes to	Form PCT/ISA/220.		
ĺ					

Name and mailing address of the ISA:

Authorized Officer

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004838

_	Box N	o. I Basis of the opinion		
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.			
	laı	is opinion has been established on the basis of a translation from the original language into the following iguage—, which is the language of a translation furnished for the purposes of international search index Rules 12.3 and 23.1(b)).		
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
	a. type of material:			
		a sequence listing		
		table(s) related to the sequence listing		
b. format of material:				
		in written format		
		in computer readable form		
	c. time	of filing/furnishing:		
		contained in the international application as filed.		
		filed together with the international application in computer readable form.		
		furnished subsequently to this Authority for the purposes of search.		
3.	ha Co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.		
4.	Additio	onal comments:		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004838

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-19

No:

Claims

Inventive step (IS)

Yes: Claims

1-19

No:

Claims

Industrial applicability (IA)

Yes: Claims

1-19

No: Claims

2. Citations and explanations

see separate sheet

Certain documents cited Box No. VI

1. Certain published documents (Rules 43bis.1 and 70.10)

and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

PCT/GB2004/004838

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: WO 01/24839 A (ACRYMED; GIBBINS, BRUCE, L; HOPMAN, LANCE, D) 12 April 2001 (2001-04-12)
- D2: US-B1-6 468 521 (PEDERSEN LARS HAASTRUP ET AL) 22 October 2002 (2002-10-22)
- D3: US 2003/186955 A1 (VANGE JAKOB ET AL) 2 October 2003 (2003-10-02)
- D4: US-A-5 326 567 (CAPELLI ET AL) 5 July 1994 (1994-07-05)
- D5: WO 02/43743 A (BRISTOL-MYERS SQUIBB COMPANY; BOWLER, PHILIP; JACQUES, ELIZABETH; PARS) 6 June 2002 (2002-06-06)

1. Novelty

The present application meets the criteria of Article 33(1) PCT, because the subject-matter of claims 1 to 19 is new in the sense of Article 33(2) PCT as none of the available prior art documents discloses a wound dressing material comprising a polymeric substrate, a silver salt and a dyestuff.

2. Inventive Step

The subject-matter of the present application appears to involve an inventive step in the sense of Article 33(3) PCT.

The problem to be solved by the present invention is regarded as the provision for improved antimicrobial wound dressing containing light-stabilized silver compounds (cf. p. 2, 1.13/14 of the description).

The solution proposed in claim 1 of the present application is the incorporation of a dyestuff which is able to photostabilize the silver salt.

Prior art documents D1 to D5 deal with wound dressings comprising a stabilized silver salt.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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According to said documents the stabilization of the silver salt can be obtained by

- (1) the presence of chloride salt of copper or iron (cf. D1, p. 24, l. 30-33), or
- (2) by the formation of a complex comprising a silver compound and a primary, secondary or tertiary amine which is associated to hydrophilic polymers (cf. D2, col.3, l.1 -8), or
- (3) by the formation of a complex of silver ions and hydantoin ligands (cf. D3, p.2 [0016]), or
- (4) by using an acyclic polyether polymer (cf. D4, col.2, l. 44-55), or
- (5) by addition stabilizers in the form of ammonia, ammonium salts, thiosulphates, chlorides and/or peroxides (cf. D5, p. 4, I. 10-15).

Since none of the prior documents discloses or suggests a stabilization of silver ions with dyestuffs, the claimed subject-matter is considered as a non-obvious alternative to those stabilizers mentioned in D1 to D5. Claims 1 to 19 therefore fulfil the requirements of Art. 33(3) PCT.

Certain Published Documents

WO 2004/112850, although not constituting prior art within the meaning of Rule 64.1 (b) appear to disclose all the features of claims 1 to 19 as the priority document GB 2402882 of this earlier application relates to dyestuff-containing wound dressing material which may comprise antiseptics in the form of silver sulfadiazine (cf. p.7, l.4 to 9).